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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/632,481	08/01/2003	Homayoun Talieh	NT-277-US	3016
7:	590 11/04/2004		EXAMINER	
NuTool Inc.			THOMAS, DAVID B	
Legal Departme	ent		ART UNIT	
1655 McCandle	1655 McCandless Drive			PAPER NUMBER
Milpitas, CA 95035			3723	

DATE MAILED: 11/04/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

			08/
	Application No.	Applicant(s)	
	10/632,481	TALIEH ET AL.	
Office Action Summary	Examiner	Art Unit	
	David B. Thomas	3723	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet w	vith the correspondence addre	ss
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a re  - If NO period for reply is specified above, the maximum statutory perio  - Failure to reply within the set or extended period for reply will, by statuenty reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I.  1.136(a). In no event, however, may a ceply within the statutory minimum of thi d will apply and will expire SIX (6) MO tte, cause the application to become A	reply be timely filed  rty (30) days will be considered timely.  NTHS from the mailing date of this commodered timely.  BANDONED (35 U.S.C. § 133).	unication.
Status	•		
<ul> <li>1) ⊠ Responsive to communication(s) filed on 12</li> <li>2a) ☐ This action is FINAL. 2b) ⊠ Th</li> <li>3) ☐ Since this application is in condition for allow closed in accordance with the practice under</li> </ul>	is action is non-final. ance except for formal mat		erits is
Disposition of Claims			
4) ☐ Claim(s) 1-30 is/are pending in the application 4a) Of the above claim(s) is/are withdrest 5) ☐ Claim(s) 14-20 and 22-29 is/are allowed.  6) ☐ Claim(s) 1,3,4,8,21 and 30 is/are rejected.  7) ☐ Claim(s) 2,5-7 and 9-13 is/are objected to.  8) ☐ Claim(s) are subject to restriction and the subjec	awn from consideration.		
Application Papers			
9)☐ The specification is objected to by the Examir 10)☑ The drawing(s) filed on 19 December 2003 is Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the Examiration is objected to be a by the Examiration is obj	/are: a)⊠ accepted or b)[ e drawing(s) be held in abeya ection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1	I.121(d).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents.  2. Certified copies of the priority documents.  3. Copies of the certified copies of the priority application from the International Bureatteness.  * See the attached detailed Office action for a list	nts have been received. nts have been received in A ority documents have beer au (PCT Rule 17.2(a)).	Application No  received in this National Sta	ge
200 the attached detailed office detail for a fix	2 551 559105 1151		
Attachment(s)  Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/06)  Paper No(s)/Mail Date	Paper No	Summary (PTO-413) s)/Mail Date Informal Patent Application (PTO-152	2)

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#### **DETAILED ACTION**

# Claim Objections

1. Claim 8 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claim 8 is a duplicate of claim 3.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1, 3, and 8 are rejected under 35 U.S.C. 102(e) as being anticipated by Taylor et al. (6,790,128).

Taylor et al. ('128) disclose an apparatus for polishing a workpiece comprising: a polishing member configured to polish the workpiece; a support structure coupled to the polishing member and configured to move the polishing member to polish the workpiece; and wherein the support structure includes at least one curved fluid bearing coupled to the polishing member and configured to support the polishing member while

it is moved to polish the workpiece; further comprising a pressure regulator configured to control pressure of a fluid exhausted from the fluid bearing.

4. Claims 1, 3, 4, and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Kao et al. (6,126,527).

Kao et al. ('527) disclose an apparatus for polishing a workpiece comprising: a polishing member configured to polish the workpiece; a support structure coupled to the polishing member and configured to move the polishing member to polish the workpiece; and wherein the support structure includes at least one curved fluid bearing coupled to the polishing member and configured to support the polishing member while it is moved to polish the workpiece; further comprising a pressure regulator configured to control pressure of a fluid exhausted from the fluid bearing; and/or further comprising a temperature regulator configured to control temperature of a fluid exhausted from the fluid bearing.

5. Claims 21 and 30 are rejected under 35 U.S.C. 102(b) as being anticipated by Miller (5,473,433).

Miller ('433) discloses integrated circuits. The examiner notes claims 21 and 30 are product-by-process claims. As such, product-by-process claims are not limited to the manipulations of the recited steps, only the structure implied by the steps. (see MPEP 2113).

### Allowable Subject Matter

6. Claims 2, 5-7, and 9-13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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- 7. Claims 14-20 and 22-29 are allowed.
- 8. The following is a statement of reasons for the indication of allowable subject matter: It is the examiner's opinion that the limitation wherein the fluid bearing supports the polishing member over a region where the polishing member plane of travel changes from a first plane to a second plane, has neither been anticipated nor fairly suggested, in part or whole, by the prior art of record.

#### Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Jairath et al., Saldana et al., Taylor et al., Weldon et al., and Xu et al. each disclose a wafer polishing device. Baker et al., Chooi et al., Easter et al., Hashimoto et al., Jacquinot et al., Leach, Lim et al., Mayer, Miller, Nakabayashi et al., Okamoto et al., Shu et al., and Vines et al. each discuss the manufacture of integrated circuits.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David B. Thomas whose telephone number is (703) 308-4250. The examiner can normally be reached on 7-4 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph J. Hail can be reached on (703) 308-2687. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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David B. Thomas Patent Examiner Art Unit 3723

dbt